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IDEALIST

25X1A

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HANDLE VIA   
CONTROL SYSTEM

-2676-66  
Copy 12 of 12

18 August 1966

MEMORANDUM FOR THE RECORD

SUBJECT : U-2R Performance Degradation With Increase In  
Zero Fuel Weight And/Or Decrease In Fuel Weight.

1. During July 1966, the Office of the Deputy for Research and Development/OSA released for in-house information, to those with a "need-to-know", the "Performance Evaluation of the U-2R Model Airplane" 2606-66).

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2. The performance evaluation of the U-2R was determined for the airplane at a zero fuel weight condition of 17,400 pounds. The zero fuel weight condition includes 100 pounds of unusable fuel, and 945 pounds of payload.

3. The payload figure of 945 pounds is based on a LAC estimate for the following:

B Overload with System VI  
System 9B  
System 12B  
System 13A  
Oscar Sierra

4. An increase in zero fuel weight and/or a decrease in fuel weight will reduce the performance estimated in the U-2 design, and the airplane will approach the performance of the U-2C.

The following two examples are very indicative:

- a. T.O.G.W. - 30,130 lbs. Removed 1000 lbs. of fuel and increased the "payload" by 1000 lbs.

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**Results:**

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b.

5. In view of the above noted performance implications which may result, it is mandatory that any changes be kept to an absolute minimum. Any such proposed change will be examined closely prior to approval.

**SIGNED**

[ ]  
**Deputy for  
Research and Development  
Special Activities**

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**ASD/R&D/OSA, [ ] (18 August 1966)**

**Distribution:**

- Cy 1 - D/R&D/OSA  
2 - ASD/R&D/OSA  
3 - D/SA  
4 - DD/SA  
5 - D/O/OSA  
6 - IDEA/OSA  
7 - D/M/OSA  
8 - COMP/OSA  
9 - SAS/OSA  
10 - [ ]  
11 - chrono  
12 - RE/OSA**

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